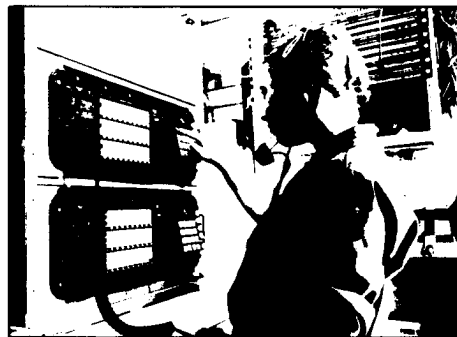




ARMY SAFETY REPORT

FY 86

Volume II
SIGNAL BRANCH BATTALIONS



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ARMY SAFETY REPORT

FY 86

Volume II
SIGNAL BRANCH BATTALIONS



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PREFACE

Two Volumes. This report is the second of two volumes. Volume I is under separate cover and provides an overview of FY 86 Army-wide accident experience. It concentrates on the major types of accidents, problem areas, cause factors, and countermeasures.

Purpose. This branch report is one of seven under separate covers. These reports present the FY 86 accident experience of active Army battalions in the following branches: Aviation, Field Artillery, Infantry, Signal, Armor, Air Defense Artillery, and Transportation. It is intended that Branch Chiefs/School Commandants use this information to produce soldiers who are more aware of and prepared for accident-causing problems they will encounter after joining their units. This information will also permit field commanders to share the accident experience of other commanders having similar missions, personnel, and equipment. It is hoped that commanders will implement corrective actions before resources are lost to accidents from the same causes.

Data Notes. In the future, branch reports will be expanded to include Army National Guard and Reserve battalions, more branches, and more information specifically tailored to the accident prevention needs of each branch.

The FY 86 data included are based on reports of ground (DA Form 285) and aviation (DA Form 2397) accidents occurring during FY 86 and recorded in the Army Safety Management Information System (ASMIS) as of 7 January 1987.

Within this report is a listing of active Army battalions identified with the branch. It is these battalions whose accident experience forms the data for this report. The applicable list of battalions was provided in November 1986 to representatives of each branch, except Aviation, for verification. No verified lists had been received as of 22 January 1987.

EXECUTIVE SUMMARY

The Signal Branch Battalion record of conserving resources through accident prevention was a good one from FY 83 through FY 86. During this period, ground accidents showed a downward trend. Three types of accidents accounted for nearly all (97%) of the accidents in Signal Branch Battalions in FY 86. These accident types were personnel injury, Army motor vehicles, and privately owned vehicles. On-duty personnel injuries occurred primarily during sports activities such as football or basketball, and maintenance activities such as installing or cleaning equipment. Off-duty personnel injuries occurred primarily during sports activities such as softball and football. Army motor vehicle accidents occurred primarily during operation of tactical vehicles such as commercial utility cargo vehicles (CUCVs) and 2 1/2-ton trucks. Privately owned vehicle accidents occurred primarily during operation of autos/sedans and motorcycles/mopeds.

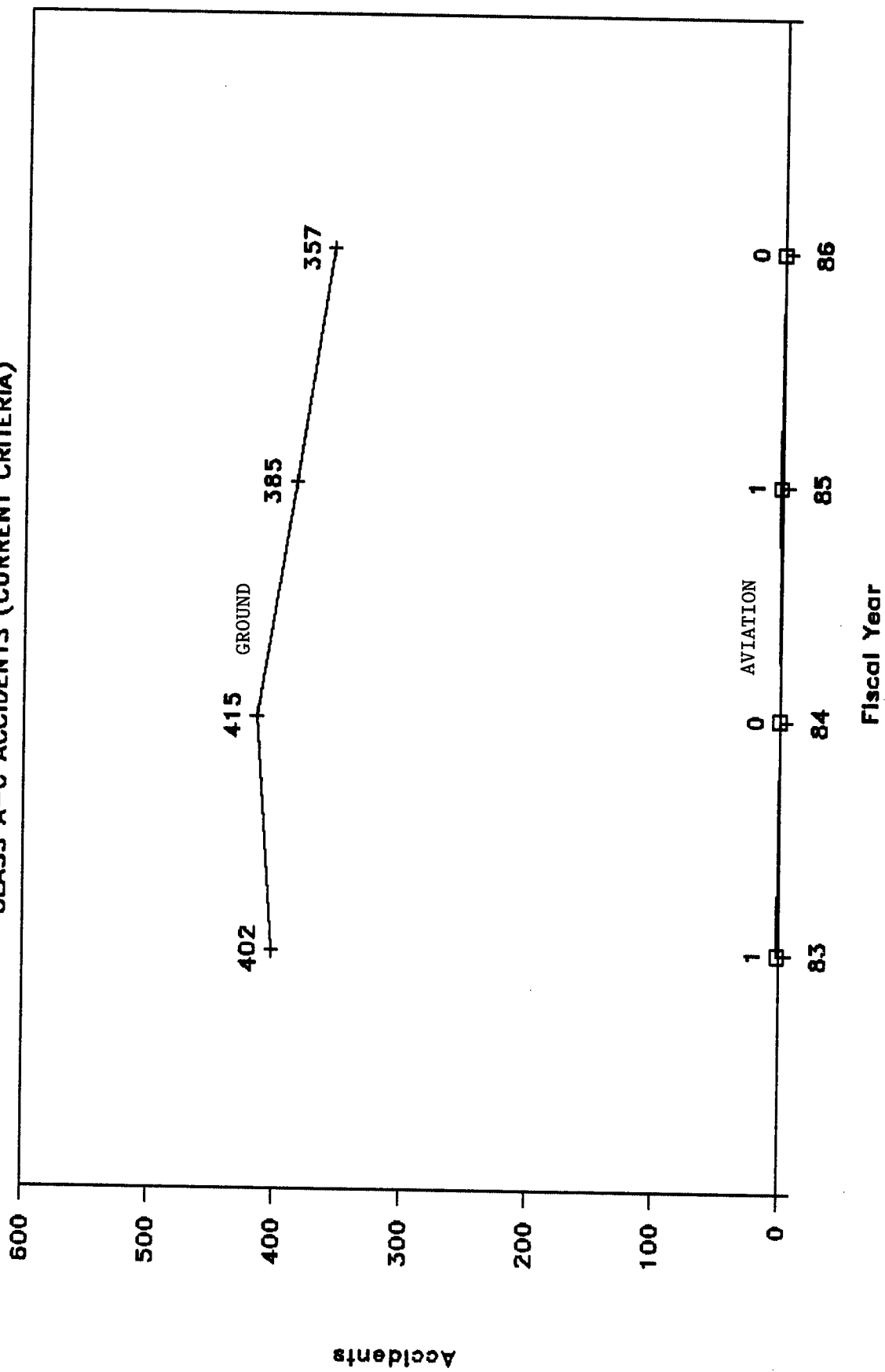
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SIGNAL BRANCH BATTALIONS

CLASS A-C ACCIDENTS (CURRENT CRITERIA)



Data as of 7 Jan 87.

During the period FY 83 through FY 86 Signal Branch Battalion ground accidents show a downward trend.

Aviation accident experience is insufficient for determining or trend.

SIGNAL BRANCH BATTALIONS
CLASS A-C ACCIDENTS (CURRENT CRITERIA)

TYPES OF ACCIDENTS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
<u>Ground</u>								
Personnel Injury	191	47	211	51	177	46	171	48
Army Motor Vehicles	103	26	105	25	97	25	93	26
Privately Owned Vehicles	83	21	82	20	104	27	83	23
Fire	18	4	13	3	5	1	8	2
Army Combat Vehicles	0	0	0	0	0	0	2	1
Other Property Damage	4	1	3	<1	1	<1	0	0
Other Army Vehicles	2	<1	1	<1	0	0	0	0
Explosives	1	<1	0	0	1	<1	0	0
Total	402	100	415	100	385	100	357	100
<u>Aviation</u>								
Rotary Wing	1		0		0		0	
Fixed Wing	0		0		1		0	
Total	1		0		1		0	

Data as of 7 Jan 87.

Personnel injury, Army motor vehicle, fire, and other property damage accidents all contributed to the downward trend in ground accidents. The number of privately owned vehicle accidents remained relatively stable except for FY 85.

SIGNAL BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ACTIVITY OF ON-DUTY INJURED PERSON	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Sports	11	11	11	9	17	17	17	18
Maintenance/Repair/Service	11	11	23	19	18	18	15	15
Human Locomotion	19	18	12	10	9	8	13	13
Material Handling	16	14	10	9	8	8	11	11
Combat Soldiering	23	21	20	17	13	13	10	10
Communications	2	2	12	10	5	5	10	10
Handling Vehicle/Vessel	3	3	4	3	4	4	8	8
Passenger	3	3	3	2	3	3	3	3
Soldiering	1	1	4	3	6	6	2	2
Physical Training	13	12	6	4	4	4	2	2
Security/Law Enforcement	0	0	2	2	1	1	2	2
Food/Drink Preparation	1	1	2	2	7	7	2	2
Weapons Handling	0	0	0	0	2	2	1	1
Fabricating	0	0	0	0	0	0	1	1
Janitorial/Housekeeping	0	0	2	2	1	1	1	1
Personal Hygiene	0	0	1	1	1	1	1	1
Operating Vehicle/Vessel	0	0	3	2	0	0	0	0
Supervisory	0	0	2	2	1	1	0	0
Office	2	2	4	3	1	1	0	0
Horseplay	1	1	0	0	0	0	0	0
Total	106	100	121	100	101	100	99	100

Data as of 7 Jan 87.

On-duty injuries in personnel injury accidents remained relatively stable except for FY 84 which was approximately 20% higher than the other years. Activities causing the higher number in FY 84 were maintenance/repair/servicing and communication. During the four year period, decreases occurred in combat soldiering and physical training while increases occurred in sports, communication, and vehicle handling activities.

SIGNAL BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY SPORTS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Touch Football	0	0	1	9	3	18	7	41
Basketball	4	37	4	37	5	29	4	23
Volleyball	2	18	0	0	2	12	2	12
Softball	2	18	5	45	5	29	1	6
Soccer	1	9	0	0	0	0	1	6
Racquetball/Paddle Ball	1	9	0	0	0	0	0	0
Tackle Football	0	0	0	0	2	12	0	0
Gymnastics/Weight Lifting	0	0	1	9	0	0	0	0
Unspecified Sports	1	9	0	0	0	0	2	12
Total	11	100	11	100	17	100	17	100

Data as of 7 Jan 87.

Tough football injuries were the major cause of the increasing trend in on-duty sports activity injuries.

SIGNAL BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY MAINTENANCE/REPAIR/SERVICING	FY 83		FY 84		FY 85		FY 86	
	n	z	n	z	n	z	n	z
Maintenance/Repair								
Installing/Removing Equipment	3	28	12	52	8	44	4	25
Cleaning	1	9	1	4	2	11	3	20
Tuning/Adjusting/Aligning	0	0	2	9	3	17	3	20
Inspecting (non-expendable)	0	0	2	9	3	17	0	0
Troubleshooting	1	9	1	4	0	0	0	0
Test Operating the Equipment	0	0	1	4	0	0	0	0
Preparing Surfaces/Material	1	9	0	0	0	0	0	0
Repairing Tires	1	9	0	0	0	0	0	0
Unspecified Maintenance/Repair	1	9	0	0	0	0	0	0
Inspecting & Servicing Expendables								
Inspecting								
Fuel/Feed	0	0	0	0	0	0	1	7
Filters, Lubricants, etc.	1	9	0	0	0	0	0	0
Replenishing								
Fueling/Defueling	0	0	0	0	0	0	1	7
Changing/Inflating Tires	2	18	0	0	2	11	1	7
Filters, Lubricants, etc.	0	0	2	9	0	0	1	7
Unspecified Maint/Repair/Servicing	0	0	2	9	0	0	1	7
Total	11	100	23	100	18	100	15	100

Data as of 7 Jan 87.

On-duty injuries involving maintenance/repair/servicing increased sharply from FY 83 to FY 84 then decreased in both FY 85 and FY 86. The sharp increase in FY 84 and subsequent decreases in FY 85 and FY 86 were primarily due to accidents involving installing/removing equipment.

SIGNAL BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY HUMAN LOCOMOTION	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Walking	13	69	6	50	9	100	8	61
Climbing/Mounting	1	5	3	25	0	0	2	15
Jumping	1	5	2	17	0	0	1	8
Egressing/Ingressing	0	0	0	0	0	0	1	8
Running	4	21	0	0	0	0	0	0
Unspecified Human Locomotion	0	0	1	8	0	0	1	8
Total	19	100	12	100	9	100	13	100

Data as of 7 Jan 87.

Human locomotion on-duty injuries remained relatively stable. The major contributor was injury while walking.

SIGNAL BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY MATERIAL HANDLING	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Transporting/Moving/Delivering	7	44	5	50	4	50	5	46
Loading/Unloading	7	44	2	20	4	50	4	36
Segregating/Relocating	1	6	2	20	0	0	1	9
Packing/Unpacking	0	0	1	10	0	0	0	0
Withdrawing/Retrieving	1	6	0	0	0	0	0	0
Unspecified Material Handling	0	0	0	0	0	0	1	9
Total	16	100	10	100	8	100	11	100

Data as of 7 Jan 87.

The major contributors to the slight downward trend in material handling on-duty injuries were in transporting/moving/delivering and loading/unloading activities.

SIGNAL BRANCH BATTALIONS
ACTIVITIES OF OFF-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ACTIVITY OF OFF-DUTY INJURED PERSON	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Sports	38	45	48	53	39	52	40	58
Human Locomotion	23	27	15	17	13	18	22	32
Material Handling	2	2	3	3	2	3	2	3
Horseplay	3	4	6	7	4	5	2	3
Weapons Handling	4	5	2	2	1	1	1	1
Janitorial/Housekeeping	0	0	2	2	3	4	1	1
Food/Drink Preparation	1	1	2	2	2	3	1	1
Personal Hygiene	12	14	6	7	2	3	1	1
Handling Vehicle/Vessel	0	0	1	1	0	0	0	0
Maintenance/Repair/Serviceing	1	1	3	3	4	5	0	0
Fabricating	0	0	0	0	1	1	0	0
Hobbies	0	0	0	0	1	1	0	0
Passenger	0	0	2	2	3	4	0	0
Bystanding/Spectating	1	1	0	0	0	0	0	0
Unreported	0	0	1	1	0	0	0	0
Total	85	100	91	100	75	100	70	100

Data as of 7 Jan 87.

Off-duty injuries in personnel injury accidents show a downward trend. The major contributor to the downward trend was a steady decline in injuries involving personal hygiene activities. During the four year period, accidents involving sports and human locomotion accounted for the majority of the injuries.

SIGNAL BRANCH BATTALIONS
ACTIVITIES OF OFF-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

OFF-DUTY SPORTS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Softball	7	17	6	13	10	25	9	21
Tackle Football	2	5	2	4	3	8	7	17
Basketball	2	5	10	22	7	17	6	14
Parachute Jumping	0	0	1	2	0	0	3	7
Touch Football	4	11	4	8	8	20	2	5
Equestrian	0	0	1	2	0	0	2	5
Skating/Skate Boarding	2	5	2	4	0	0	2	5
Gymnastics/Weightlifting	0	0	0	0	2	5	2	5
Baseball	1	3	2	4	0	0	1	3
Soccer	0	0	0	0	1	3	1	3
Volleyball	3	8	0	0	0	0	1	3
Swimming	5	13	2	4	0	0	1	3
Diving	1	3	1	2	1	3	1	3
Fishing From Boat	0	0	0	0	1	3	1	3
Racquetball/Paddle Ball	1	3	1	2	0	0	0	0
Tennis	0	0	1	2	0	0	0	0
Rugby	0	0	1	2	0	0	0	0
Wrestling	2	5	1	2	2	5	0	0
Rodeoing	3	8	0	0	0	0	0	0
Snow Skiing	0	0	2	4	0	0	0	0
Water Skiing	0	0	0	0	1	3	0	0
Hockey	1	3	1	2	0	0	0	0
Frisbee	0	0	1	2	0	0	0	0
Mountain/Rock Climbing	0	0	2	4	1	3	0	0
Jogging	3	8	6	13	0	0	0	0
Unspecified Sports	1	3	1	2	2	5	1	3
Total	38	100	48	100	39	100	40	100

Data as of 7 Jan 87.

Off-duty injuries in sports remained relatively stable except for FY 84. The major contributors to these injuries were softball, tackle football, and basketball.

SIGNAL BRANCH BATTALIONS
ACTIVITIES OF OFF-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

OFF-DUTY HUMAN LOCOMOTION	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Walking	18	78	6	40	9	69	11	50
Running	4	18	2	13	1	8	3	13
Jumping	1	4	2	13	0	0	1	5
Egressing/Ingressing	0	0	1	7	0	0	1	5
Climbing/Mounting	0	0	4	27	1	8	0	0
Unspecified Human Locomotion	0	0	0	0	2	15	6	27
Total	23	100	15	100	13	100	22	100

Data as of 7 Jan 87.

Off-duty injuries in human locomotion show a relatively stable trend. Walking and running injuries were the major contributors.

SIGNAL BRANCH BATTALIONS
CLASS A-C GROUND ACCIDENTS (CURRENT CRITERIA)
ARMY MOTOR VEHICLE ACCIDENTS

PRIMARY VEHICLE*	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
<u>Tactical</u>								
CUCV	0	0	5	5	24	25	40	43
2 1/2-Ton Trucks	27	26	13	12	16	16	14	16
Gamma Goat	12	12	12	11	7	7	6	7
5-Ton Trucks	6	6	2	2	1	1	4	5
M880/890 Trucks	26	25	32	30	27	29	3	3
1/4-Ton Trucks	17	16	15	14	3	3	1	1
Tactical Trailers	0	0	0	0	0	0	1	1
HMMWV	0	0	0	0	0	0	1	1
1/2 - 1 1/2-Ton Trucks	1	1	0	0	3	3	0	0
Over 10-Ton Trucks	1	1	0	0	0	0	0	0
Other Tactical Vehicles	7	7	7	7	4	4	7	8
<u>Commercial</u>								
Sedan/Station Wagon	1	1	0	0	3	3	4	5
Bus	0	0	0	0	0	0	4	5
Van	5	5	5	5	2	2	4	5
1/4 - 3/4-Ton Trucks	0	0	3	3	0	0	0	0
1 - 2-Ton Trucks	0	0	1	1	0	0	0	0
Over 2-Ton Trucks	0	0	7	7	3	3	0	0
Motorcycle	0	0	0	0	1	1	0	0
Other Commercial Vehicles	0	0	3	3	3	3	4	5
Total	103	100	105	100	97	100	93	100

*In multiple vehicle accidents, the primary vehicle is the one most at fault, e.g., through driver error or materiel failure.

Data as of 7 Jan 87.

Army motor vehicle accidents show a downward trend. Decreases in M880/890 truck, Gamma Goat, and 1/4-ton truck accidents were offset by an increase in CUCV accidents. These vehicles along with 2 1/2-ton trucks were the major contributors to Army motor vehicle accidents.

SIGNAL BRANCH BATTALIONS
CLASS A-C GROUND ACCIDENTS (CURRENT CRITERIA)
PRIVATELY OWNED VEHICLE ACCIDENTS

PRIMARY VEHICLE*	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Auto/Sedan	44	53	50	61	61	58	41	50
Motorcycle/Moped	23	28	13	16	21	20	19	23
Bicycle	5	6	5	6	6	6	5	1
Truck	4	5	0	0	5	5	4	5
Bus	0	0	1	1	2	2	0	0
Van	1	1	1	1	0	0	0	0
Trains	0	0	0	0	1	1	0	0
Other POV	1	1	2	2	5	5	2	6
Unreported	5	6	10	13	3	3	12	15
Total	83	100	82	100	104	100	83	100

*In multiple vehicle accidents, the primary vehicle is the one most at fault, e.g., through driver error or materiel failure.

Data as of 7 Jan 87.

Privately owned vehicle accidents remained relatively stable except during FY 85 which was approximately 25% above the other years shown primarily due to an increase in auto/sedan accidents. Auto/sedan and motorcycle/moped accidents were the major type vehicles involved during the four year period.

SIGNAL BRANCH BATTALIONS
CLASS A-C GROUND ACCIDENTS (CURRENT CRITERIA)
FIRE ACCIDENTS

PROBLEM AREAS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Fuel Heaters/Stoves	6	33	6	45	4	80	5	71
Flammable Materials	8	44	4	31	1	20	2	29
Children With Matches/Lighters	1	6	0	0	0	0	0	0
Vehicle Fuel Fires	0	0	1	8	0	0	0	0
Vehicle Electrical Fires	1	6	0	0	0	0	0	0
Smoking Materials-Cigarettes	0	0	1	8	0	0	0	0
Miscellaneous	2	11	1	8	0	0	0	0
Total	18	100	13	100	5	100	7	100

Data as of 7 Jan 87.

Fire accidents show a decreasing trend. Reductions in fires involving flammable materials were the primary contributor to the decreasing trend. Fires involving fuel heaters/stoves and flammable materials were the major contributors to fire accidents during the four year period.

SIGNAL BRANCH BATTALIONS
CLASS A-C AVIATION ACCIDENTS (CURRENT CRITERIA)

TYPE AIRCRAFT	FY 83	FY 84	FY 85	FY 86
<u>Rotary Wing</u>				
UH-1	1	0	0	0
<u>Fi Wing</u>				
U-21	0	0	1	0
Total	1	0	1	0

Data as of 7 Jan 87.

Signal Branch Battalion UICs

WAH2AA	121	SC
WCEFFF	41	SC
WEJGAA	29	SC
WCEEFF	36	SC
WEJFAA	67	SC
WCEDAA	26	SC
WDQ1FF	52	SC
WCECAA	16	SC
WDQZFF	43	SC
WCEBAA	1	SC
WDFXAA	9	SC
WCD9FF	102	SC
WEZZAA	327	SC
WCD7AA	509	SC
WAEDAA	142	SC
WAA9AA	82	SC
WAGVAA	13	SC
WA4MAA	32	SC
WAJXAA	122	SC
WFM9AA	57	SC
WALLAA	127	SC
WCD4FF	73	SC
WANBAA	123	SC
WCD3FF	39	SC
WAPEAA	8	SC
WFT1FF	86	SC
WAFBAA	143	SC
WEZ1AA	426	SC
WCERAA	97	SC
WAKSAA	124	SC
WCENAA	17	SC
WAMEAA	125	SC
WCEJAA	440	SC
WANKAA	5	SC
WEJJAA	38	SC

WAQMAA	24	SC
WDN9AA	6	SC
WCESAA	304	SC
WADJAA	141	SC
WGQMAA	11	SC
WCEQFF	69	SC
WGZPAA	63	SC
WOZNAA	PHYDI	SC
WHLXAA	25	SC
WACLAA	501	SC
WA4NAA	34	SC
WCELFF	40	SC
WHPJFF	3	SC
WDQOAA	44	SC
WA4RAA	50	SC